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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/600,594	09/07/2000	Milton F. Ferreira	3673-3	5221	
23117	7590 07/01/2003				
NIXON & VANDERHYE, PC 1100 N GLEBE ROAD 8TH FLOOR			EXAMINER		
			LUDLOW, JAN M		
ARLINGTON, VA 22201-4714			ART UNIT	PAPER NUMBER	
			1743	100	
			DATE MAILED: 07/01/2003	19	

Please find below and/or attached an Office communication concerning this application or proceeding.

Offic Action Summary Communication Commun			Applic	ation No.	pplicant(s)	N
The MAILING DATE of this communication appears on the cover sheat with the correspondence address Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estensions of time may be available under the provisions of 3 CPR 1.136(o). In no event, however, may a reply be timely filed Estensions of time may be available under the provisions of 3 CPR 1.136(o). In no event, however, may a reply be timely filed Estensions of time may be available under the provisions of 3 CPR 1.136(o). In no event, however, may a reply be timely filed Estensions of temply aspections under the provisions of 3 CPR 1.136(o). In no event, however, may a reply be timely filed Estensions of temply aspections under the provisions of 3 CPR 1.136(o). In no event, however, may a reply be timely filed If the period for reply specified above is been been likely (0) days, a reply villable in the maining date of the communication. Fallowers of reply is specified become, the maintension of the period of the communication. Fallowers of reply is specified above, the maintension of the scommunication. Fallowers of the score and			09/600	0,594	FERREIRA ET AL	7
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of lines may be evaluable under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filed - Extensions of lines may be evaluable under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filed - Extensions of lines may be evaluable under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filed - Extensions of times may be evaluable under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filed - If NO period for reply is specified above, the maximum statustory period vial apply and will expire SIX (6) MONTHS from the mailling date of this communication. - Failurs to reply within the act or careful period for region will be provised by the maximum statutory of the control of the second patients term adjustment. See 37 CFR 1.704(b). - Status 1)			Jan M.	Ludlow	1743	
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3 CFR 1.35(a). In no event, however, may a reply be timely flied after SIX (5) MONTHS from the maling date of this communication. If the period craptly specified above is used than thing (50) days, a reply within the subtory minimum of thing (20) days will be contributed fitting. Fallular to reply within the set or extended principle for reply will, by stability, cause the application to become ABANDONED (33 U.S. 2, \$133). Any reply received by the Office and the than three months after the mailing date of this communication, even if timely filled, may reduce any examine patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filled on			unication appears on	the cover sheet with the	correspondence add	dress
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 2isposition of Claims 4) Claim(s) 22-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 37-40 is/are allowed. 6) Claim(s) 22-36 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 10 June 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	_	ansiva to communication(s)	filed on			
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Notice of References Cited (PTO-892) Interview Summary (PTO-413) Paper No(s) Notice of Draftsperson's Patent Drawing Review (PTO-948) Statement(s) (PTO-1449) Paper No(s) Other:	Notice of Re	ftsperson's Patent Drawing Review		5) Notice of Informa		•

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A request for continued examination under 37 CFR 1.114, including the fee set

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forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June

10, 2003 has been entered.

2. Claims 22-36 are rejected under 35 U.S.C. 112, first paragraph, as containing

subject matter which was not described in the specification in such a way as to

reasonably convey to one skilled in the relevant art that the inventor(s), at the time the

application was filed, had possession of the claimed invention. There is no support in

the disclosure as originally filed for the negative limitation "by methods other than

immunoassays" in claim 22. There is no support for "down to at least 0.3 ug/ml" in

claims 22 and 32—"at least" is not supported.

3. The amendment filed February 10, 2003, entered June 10, 2003 is objected to

under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35

U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of

the invention. The added material which is not supported by the original disclosure is as

described above with respect to claims 22 and 32.

4. Applicant is required to cancel the new matter in the reply to this Office Action.

· 5. Claims 25, 30, 32-36 are rejected under 35 U.S.C. 112, second paragraph, as

being indefinite for failing to particularly point out and distinctly claim the subject matter

which applicant regards as the invention.

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6. Claim 25 recites "acetonitrile/2-propanol" as a non-polar solvent, but Lam teaches that acetonitrile is polar, and isopropanol, having an OH group, is polar as well. The scope of claim 32 is unclear in that the preamble refers to rifampicin, but the body of the claim refers to the broader term "the drug".

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
- 9. Determining the scope and contents of the prior art.
- 10. Ascertaining the differences between the prior art and the claims at issue.
- 11. Resolving the level of ordinary skill in the pertinent art.
- 12. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 13. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 14. Claims 22-, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meucci et al.
- 15. Meucci teaches a method of testing for hydrophobic drugs in patient samples by precipitating with a mixture of zinc sulfate, alcohol (polar solvent) and acid, centrifuging and analyzing the supernatant (col. 2, col. 3, lines 25-52). The mixture can contain 100mM (0.1 M) zinc sulfate (col. 2, line 5) and 90-100% of the analyte is recovered (col. 3, line 21). The precipitating mixture is added in one step to the sample, the mixture vortexed and centrifuged (col. 7, lines 50-65). The reagent can be used to prepare other samples (col. 1, lines 50-65) for assays other than immunoassays (col. 2, lines 37-39).
- 16. Meucci fails to explicitly teach an example using assays other than immunoassay or the detection limit.
- 17. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the protein precipitation method of Meucci to prepare a sample and measure the analyte with a method other than immunoassay in order to use the sample preparation method with assays other than immunoassay as taught. With respect to the detection limit, in that the method of Meucci is substantially the same as that claimed, it is the examiner's position that the detection limit would be inherently met. Note that with the immunoassay, a detection limit of 15 ng/ml (0.015 ug/ml) is disclosed (col. 7, lines 19-20). With respect to claim 23, it would have been obvious to

one of ordinary skill in the art at the time the invention was made to use a stronger concentration of zinc sulfate in a smaller added volume in order to provide the same concentration of zinc sulfate in the sample while minimizing sample dilution as was known in the art. With respect to claim 25, the non-polar solvent is recited in the alternative, and therefore the art need not teach the solvents to satisfy the claim. With respect to claim 27, acetic acid is a natural anti-oxidant (see, e.g., Vadhar, col. 15, line 53). it would have been obvious to use ascorbic acid for its know acidic function. With respect to claim 28, it would have been obvious to use other known assay methods after the sample preparation as taught by Meucci. With respect to claims 29-31, it would have been obvious to use the sample preparation method on other hydrophobic drugs as taught by Meucci.

- 18. Claims 32-36 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 19. Claims 37-40 are allowed.
- 20. The following is a statement of reasons for the indication of allowable subject matter: Claim 32 has been interpreted for purposes of examination as being limited to monitoring bioavilability of rifampicin. The prior art fails to teach or suggest the claimed method and kit for detecting rifampicin. Note that Meucci teaches propanol, but not acetonitrile/propanol or the other solvents. Note that Neither Bergqvist nor Lam teaches applicability to rifampicin.
- 21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- 22. Elsbach teaches that rifamipicin is hydrophobic.
- 23. Bergqvust additionally teaches zinc sulfate precipitation with acetonitrile.
- 24. Applicant's arguments filed June 10, 2003 have been fully considered but they are not persuasive.
- 25. Applicant's arguments demonstrate a continuing lack of understanding of the scope of the instant claims. It is strongly suggested that applicant's registered representative review the legal meaning of the word "comprising" in contrast with the meaning of the phrase "consisting essentially of". In that the instant claims use the transitional word "comprising," the claims are considered "open" and any prior art reference which teaches or suggests the claimed steps PLUS any other additional steps or components, satisfies the instant claims. It is immaterial whether or not the exemplary method of Meucci requires additional steps or components because the instant claims do not preclude the additional steps or components. Further, Meucci teaches that the sample preparation can be used with other assay techniques, satisfying the unsupported (i.e., new matter) limitation "other than immunoassays".
- 26. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jan M. Ludlow whose telephone number is (703) 308-4039. The examiner can normally be reached on Monday-Thursday, 11:30 am 8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (703) 308-4037. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Jan M. Ludlow Primary Examiner Art Unit 1743

jml June 29, 2003